

# Jian Ding

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- CONTACT INFORMATION Department of Statistics  
Evans Hall, UC Berkeley  
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<http://www.stat.berkeley.edu/~jding/>
- EDUCATION Ph.D. in Statistics  
UC Berkeley, Berkeley, CA, 2006-2011  
Advisor: Yuval Peres  
B.S. in Mathematics  
Peking University, Beijing, China, 2002 -2006
- EMPLOYMENT Research Intern at Microsoft Research New England,  
Cambridge, MA, US, May 24 – August 13 2010,  
Mentor: Jennifer Chayes  
Short term postdoctoral position at University of Washington,  
Seattle, WA, US, June 1 – August 31, 2011  
Mentor: James Lee
- RESEARCH INTERESTS Probability theory and its applications. In particular, mixing times of Markov chains, cover times of Random walks, and random graphs, etc.
- PUBLICATIONS [1] J. Ding, E. Lubetzky and Y. Peres. The mixing time evolution of Glauber dynamics for the mean-field Ising model, *Communications in Mathematical Physics*, 289(2): 725-764 (2009).  
[2] J. Ding, E. Lubetzky and Y. Peres. Censored Glauber Dynamics for the mean field Ising Model. *Journal of Statistical Physics*, 137(3): 407-458 (2009).  
[3] J. Ding, E. Lubetzky and Y. Peres. Total-variation cutoff in birth-and-death chains. *Probability Theory and Related Fields*, 146(1-2):61-85 (2010).  
[4] J. Ding, E. Lubetzky and Y. Peres. Mixing time of critical Ising model on trees is polynomial in the height. *Communications in Mathematical Physics*, 295(1):161-207 (2010).
- TO APPEAR [5] J. Ding, J.H. Kim, E. Lubetzky and Y. Peres. Anatomy of a young giant component in the random graph. *Random Structures and Algorithms*, to appear, 42 pages.  
[6] J. Ding, J.H. Kim, E. Lubetzky and Y. Peres. Diameters in supercritical random graphs via first passage percolation. *Combinatorics, Probability and Computing*, to appear, 25 pages.  
[7] M.T. Barlow, J. Ding, A. Nachmias and Y. Peres. The evolution of the cover time. *Combinatorics, Probability and Computing*, to appear, 14 pages.  
[8] C. Borgs, J. Chayes, J. Ding and B. Lucier. The Hitchhiker’s Guide to Affiliation Networks: A Game-Theoretic Approach. Accepted by *Innovations in Computer Science* (2011), 15 pages.

[9] J. Ding and Y. Peres. Mixing time for the Ising model: a uniform lower bound for all graphs. *Annales de l'Institut Henri Poincaré - Probabilités et Statistiques*, to appear, 11 pages.

[10] J. Ding, E. Lubetzky and Y. Peres. Mixing time of near-critical random graphs. *Annals of Probability*, to appear, 29 pages.

[11] J. Ding, J. Lee and Y. Peres. Cover times, blanket times, and majorizing measures. *Annals of Mathematics*, to appear, 55 pages.

IN REVIEW

[12] J. Ding. Asymptotics of cover times via Gaussian free fields: bounded-degree graphs and general trees. *Submitted*, 24 pages.

[13] J. Ding and O. Zeitouni. A sharp estimate for cover times on binary trees. *Submitted*, 14 pages.

[14] J. Ding. Exponential and double exponential tails for maximum of two-dimensional discrete Gaussian free field. *Submitted*, 11 pages.

INVITED  
TALKS

Probability seminar, University of Washington, May 2009.

Workshop on Infinite Particle Systems in honor of Thomas M. Liggett, Peking University, June 2009.

Probability seminar, New York University, October 2009.

Probability seminar, MIT, October 2009.

Probability seminar, National University of Singapore, November 2009.

Probability seminar, UCLA, April 2010.

AMS meeting, Los Angeles, October 2010.

Special seminar, MIT, December 2010.

Probability seminar, National University of Singapore, January 2011.

Probability seminar, Harvard University, March 2011.

Probability seminar, New York University, March 2011.

Probability seminar, Stanford University, April 2011.

Probability and math-physics seminar, UC Davis, April 2011.

STOC, San Jose, June 2011.

OTHER  
TALKS

Student seminar, UC Berkeley, April 2008.

Probability Summer School, University of British Columbia, June 2008.

5th Probability Summer School at Cornell, Cornell University, July 2009.

Probability seminar at UC Berkeley, September 2009.

Microsoft Research, April, 2010.

Probability seminar, UC Berkeley, April, 2011.

TEACHING  
EXPERIENCE

STAT 150, Stochastic Processes, Spring 2007, TA.

STAT 2, Introduction to Statistics, Spring 2008, TA.

PROFESSIONAL  
SERVICE

Referee for journals: *Random Structures and Algorithms*, *Journal of Physics A*, *Annals of Applied Probability*, *Annals of Probability*.

Referee for proceedings: *Symposium on Discrete Algorithms*, *RANDOM*.

REFERENCES

Dr. Yuval Peres, Microsoft Research, email: peres@microsoft.com.

Dr. David Aldous, UC Berkeley, email: aldous@stat.berkeley.edu.

Dr. Alistair Sinclair, UC Berkeley, email: sinclair@cs.berkeley.edu

Dr. James Lee, University of Washington, email: jrl@cs.washington.edu.

Dr. Eyal Lubetzky, Microsoft Research, email: eyal@microsoft.com.